### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

# Listing of Claims:

Claims 1-3 (canceled).

Claim 4 (Currently Amended): An active ray curable ink-jet ink composition comprising:

a photo-induced acid generating agent containing an onium salt which does not generate benzene during active ray radiation, and

a photopolymerizable compound containing a compound having an oxetane ring in the molecule,

wherein the onium salt is a sulfonium salt represented by one of Formulas (1) to (4):

# Formula (1)

# Formula (2)

$$\begin{array}{c|c} R_7 & R_6 \\ \hline \\ S & S \end{array}$$

# Formula (3)

$$\begin{array}{c}
R_{11} \\
 \end{array}$$

$$\begin{array}{c}
R_{10} \\
 \end{array}$$

$$\begin{array}{c}
R_{0} \\
 \end{array}$$

$$\begin{array}{c}
R_{0} \\
 \end{array}$$

$$\begin{array}{c}
R_{0} \\
 \end{array}$$

# Formula (4)

$$x^{-}$$
 $x^{-}$ 
 $x^{-}$ 

wherein R<sub>1</sub>-R<sub>17</sub> are [[each]] individually selected from the group consisting of a hydrogen atom; an alkyl group selected from the group consisting of a methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, t-butyl group, pentyl group, and hexyl group; an alkoxy group selected from the group consisting of a methoxy group, ethoxy group, propoxy group, butoxy group, hexyloxy group, decyloxy group, and dodecyloxy group; a carbonyl group selected from the group consisting of a acetoxy group, propionyloxy group, decylcarbonyloxy group, dodecylcarbonyloxy group, methoxycarbonyl group, ethoxycarbonyl group, and benzoyloxy group; a halogen atom selected from the group consisting of fluorine, chlorine, bromine and iodine; a cyano group, a nitro group, or a hydroxyl group or a substituent group, provided that R<sub>1</sub> - R<sub>3</sub> are not a hydrogen atom at the same time, at least one of R,-R, is an alkoxy group or all are each a methyl, R4 - R7 are not a hydrogen atom at the time,  $R_8 - R_{11}$  are not a hydrogen atom the same time,  $R_{12}$  -  $R_{17}$  are not a hydrogen atom at the same time; X is a non-nucleophillic anion residue; and R1 - R3 of Formula (1) are not a phenylthio group or a phenoxy group.

Claim 5 (Currently Amended): An active ray curable ink-jet ink composition comprising:

a photo-induced acid generating agent containing an onium salt which does not generate benzene during active ray radiation, and

a photopolymerizable compound containing a compound having an oxetane ring in the molecule. The active ray curable ink-jet ink composition according to claim 4.

wherein the sulfonium salt represented by one of Formulas
(1) - (4) is represented by one of Formulas (5) - (13):

#### Formula (5)

### Formula (6)

# Formula (7)

# Formula (8)

# Formula (9)

# Formula (10)

Formula (11)

Formula (12)

Formula (13)

wherein X in each Formula is a non-nucleophillic non-nucleophilic anionic group.

Claim 6 (Currently Amended): The active ray curable ink-jet ink composition according to claim 1 claim 5, comprising a basic compound.

Claim 7 (Currently Amended): The active ray curable ink-jet ink composition according to claim 1 claim 5, comprising a nonionic surface active agent.

Claim 8 (Currently Amended): The active ray curable ink-jet ink composition according to claim 1 claim 5, comprising a photopolymerizable compound having an oxirane group in the molecule.

Claim 9 (Currently Amended): The active ray curable ink-jet ink composition according to claim 1 claim 5, comprising the following photopolymerizable compounds:

- (a) a compound having at least one oxetane ring in the molecule in an amount of 25 90 weight%;
- (b) a compound having at least one oxirane group in the molecule in an amount of 10 70 weight%; and
- (c) a vinyl ether compound in an amount of 0 40
  weight%,

each weight% is based on the total weight of the composition.

Claim 10 (Currently Amended): The active ray curable ink-jet ink composition according to claim 1 claim 5,

wherein the compound which has an oxetane ring represented by Formula (E) :

Formula (E)

Wherein wherein R<sub>1</sub> - R<sub>6</sub> are each a hydrogen atom or a substituent group, provided that at least one group represented by R<sub>3</sub> - R<sub>6</sub> is said [[a]] substituent group wherein said substituent group is selected from the group consisting of a halogen atom; a group linked with an aliphatic group, an aromatic group, or a heterocyclic group, through at least one linking group selected from 0. S. an NH group, a COO group, an OCO group, and an SO<sub>2</sub> group; an aliphatic group; an aromatic group; or a heterocyclic group; and further R<sub>1</sub> - R<sub>6</sub> may form a polyfunctional oxetane compound linked with an atom group containing another oxetane ring, through a divalent hydrocarbon radical which may contain O, S, or Si in a principal chain.

Claim 11 (Currently Amended): The active ray curable ink-jet ink composition according to claim 1 claim 5, exhibits a viscosity of 7 - 50 mPa•s at 25 °C.

Claim 12 (Withdrawn-Currently Amended): An image forming method using the active ray-curable ink-jet ink composition of claim 4, comprising the steps of:

- (a) ejecting droplets of the ink from a nozzle an ink-jet recording head to form an image on a recording material; and
- (b) irradiating the image with an active ray, wherein the irradiation step is carried out between 0.001 2.0 seconds after deposition of the ink composition.

Claim 13 (Withdrawn): The image forming method according to claim 12,

wherein the total ink thickness on the recording material is 2 - 20 µm after irradiation of an active ray.

Claim 14 (Withdrawn): The image forming method according to claim 12,

wherein the ink droplet volume ejected from each nozzle of the ink-jet recording head is 2 to 15 pl.

Claim 15 (Withdrawn): The image forming method according to claim 12,

wherein the ink-jet recording head is a line head.

Claim 16 (Withdrawn): An ink-jet recording apparatus which is employed in the image forming method according to claim 12,

wherein an active ray curable ink-jet ink composition and an ink-jet recording head are heated to 35 - 100 °C before ejecting the ink composition.

Claims 17-25 (Canceled).

Claim 26 (New): The active ray curable ink-jet ink composition according to claim 4, comprising a basic compound.

Claim 27 (New): The active ray curable ink-jet ink composition according to claim 4, comprising a nonionic surface active agent.

Claim 28 (New): The active ray curable ink-jet ink composition according to claim 4, comprising a photopolymerizable compound having an oxirane group in the molecule.

Claim 29 (New): The active ray curable ink-jet ink composition according to claim 4, comprising the following photopolymerizable compounds:

- (a) a compound having at least one oxetane ring in themolecule in an amount of 25 90 weight%;
- (b) a compound having at least one oxirane group in the molecule in an amount of 10 - 70 weight%; and
- (c) a vinyl ether compound in an amount of 0 40
  weight%,

each weight% is based on the total weight of the composition.

Claim 30 (New): The active ray curable ink-jet ink composition according to claim 4,

wherein the compound which has an oxetane ring represented by Formula (E):

Formula (E)

wherein  $R_1$  -  $R_6$  are each a hydrogen atom or a substituent group, provided that at least one group represented by  $R_3$  -  $R_6$  is said substituent group wherein said substituent group is selected from the group consisting of a halogen atom; a group linked with an aliphatic group, an aromatic group, or a heterocyclic group, through at least one linking group selected from 0, S, an NH group, a COO group, an OCO group, and an  $SO_2$  group; an aliphatic group; an aromatic group; or a heterocyclic group; and further  $R_1$  -  $R_6$  may form a polyfunctional oxetane compound linked with an atom group containing another oxetane ring, through a divalent hydrocarbon radical which may contain 0, S, or Si in a principal chain.

Claim 31 (New): The active ray curable ink-jet ink composition according to claim 4, exhibits a viscosity of 7 - 50 mPa•s at 25 °C.